中国认可
国际互认
检测
TESTING
CNAS L6069

Test Report

Report No. TC.25.06.002436

Date of Issue 2025-06-06

Applicant:	[redacted]
Applicant Address:	[redacted]
Product/Sample Description：	PET acoustic panel 2800 x 1225 x 12 mm with a density of 2400 g/m² and made with 50–60% recycled PET fiber.
Color:	Black
Nature and end use application:	The product "PET acoustic panel" is defined as a decorative sheet. Its classification is valid for the following end use application: Excluding flooring.
Receipt Date of Sample:	Received on 2025-05-27
Date of Testing:	From 2025-05-27 to 2025-06-03
Sample Submitted:	The Sample(s) and Its (Their) Information(s) Was (Were) Submitted by Applicant and Identified.
Test Result:	Refer to Next Page.

Conclusion:

Test Items		Standard	Conclusion
1	Burning behaviour	EN 13501-1:2018	B-s1,d0

Remark: Data of the report is quoted in TC.25.05.002221.

TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd.

Prepared by: Zheng Rui

Rui Zhang

Approved by: wayne

Wayne Wang

Note:
(1) Each order is subject to acceptance of our General Terms and Conditions and the TÜV SÜD Testing, Certification, Validation and Verification Regulation, in the version valid at the time the contract is concluded. For full version of above both documents, please visit the link to view.
(2) The results in this report are relevant only to the sample(s) tested.
(3) The test report shall not be reproduced except in full without the written approval of the laboratory.
(4) Disclaimer Measurement Uncertainty:
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 or CNAS-GL015:2022.

Regd. Office:
TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd.
Test location: Changzhou

Phone: +86/0519-81239872
Fax: +86/0519-81239872-123
E-mail: czx.qm@tuvsud.com
Web: http://www.tuvsud.com

Address:
Building 17, Innovative Industry Park, No. 377
Wuyinan Road, National High and New Technology &
Industry Development Zone, Wujin, 213015 P.R. China

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Test Results

EN 13501-1:2018 Fire classification of construction products and building elements- Part 1: Classification using data from reaction to fire tests

1. EN 13823:2020+A1:2022 reaction to fire tests for building products – building products excluding floorings exposed to the thermal attack by a single burning item

1.1 Sample details

Sample size	Long limb:1500mm×1000mm
	Short limb:1500mm×495mm
Thickness	About 12.0 mm

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
	23±2	50±5	≥48

Mounting and fixing	Calcium silicate board, with its density approximate 900kg/m^3, thickness approximate 12 mm, is as the substrate. The test specimens are fixed mechanically to the substrate with fixtures. No joint in the long wing of the specimen. The PET acoustic panel was attached directly to the calcium silicate board without an air gap behind it.

1.2 Results

	1	2	3	Average
$FIGRA_{0.2MJ}$(W/s)	21.6	18.9	14.5	18.3
$FIGRA_{0.4MJ}$(W/s)	21.6	18.9	14.5	18.3
LFS< edge of specimen (Yes/No)	Yes	Yes	Yes	--
THR_{600s}(MJ)	1.6	1.3	0.8	1.2
SMOGRA(m^2/s^2)	4.2	0	2.8	2.3
TSP_{600S}(m^2)	40.1	37.4	29.2	35.6
Flaming particles or droplets(Yes/No)	No	No	No	--
Observe	--			

Remark:

$FIGRA_{0.2MJ}$=maximum of the quotient of heat release rate from the specimen and the time of its occurrence suing a THR-threshold of 0.2MJ

$FIGRA_{0.4MJ}$=maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a THR threshold of 0.4MJ

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LFS=lateral flame spread on the long specimen wing
THR_{600s}=Total heat release from the specimen in the first 600s of exposure to the main burner flames
SMOGRA=smoke growth rate. the maximum of the quotient of smoke production rate from the specimen and the time of its occurrence
TSP_{600s}=Total smoke production from the specimen in the first 600s of exposure the main burner flames

2. EN ISO 11925-2:2020 Reaction to fire tests- ignitability of building products subjected to direct impingement of flame- part2: single-flame source

2.1 Sample details

Sample size	250mm×90mm
Thickness	About 12.0 mm

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
	23±2	50±5	≥48

2.2 Test results

Face ignition

Specimen	1	2	3
Whether ignition occurs (Yes/No)	No	No	No
Whether the flame tip reaches 150mm above the flame application point (Yes/No)	No	No	No
The time of the flame tip reaches 150mm above the flame application point.	--	--	--
Whether ignition of the filter paper occurs(Yes/No)	No	No	No

Edge ignition

Specimen	1	2	3
Whether ignition occurs (Yes/No)	No	No	No
Whether the flame tip reaches 150mm above the flame application point (Yes/No)	No	No	No
The time of the flame tip reaches 150mm above the flame application point.	--	--	--
Whether ignition of the filter paper occurs(Yes/No)	No	No	No

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EN 13501-1:2018 table 1 - classification

Classification	Test method		Classification criteria
B	EN 13823 and		$FIGRA_{0.2MJ}$ ≤120W/s; LFS< edge of specimen THR_{600s}≤7.5 MJ
	EN ISO 11925-2 Exposure = 30 s		F_s ≤150mm within 60s
Additional classification	Smoke	s1	SMOGRA≤30m^2/s^2, TSP_{600s}≤50m^2
		s2	SMOGRA≤180m^2/s^2, TSP_{600s}≤200m^2
		s3	Not s1 or s2
	Flaming droplets/particles	d0	No flaming droplets/particles in EN 13823 within 600s
		d1	No flaming droplets/particles persisting longer than 10 s in EN 13823 within 600s
		d2	Not d0 or d1 Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

Conclusion

Test standard	Record	Conclusion
EN 13823	$FIGRA_{0.2MJ}$= 18.3 W/s LFS < Sample edge THR_{600s}= 1.2 MJ SMOGRA= 2.3 m^2/s^2 TSP_{600S}= 35.6 m^2 No flaming droplets/particles in EN 13823 within 600s	B-s1,d0
EN ISO 11925-2	F_S≤150mm within 60s No ignition of the filter paper occurs.	

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Test photos

 Before test	 After test

Statement：The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to the sole criterion for assessing the potential smoke and toxicity hazard of the product in use.

-End of Report-

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Fax: +86/0519-81239872-123
E-mail: czx.qm@tuvsud.com
Web: http://www.tuvsud.com

Address:
Building 17, Innovative Industry Park, No. 377
Wuyinan Road, National High and New Technology &
Industry Development Zone, Wujin, 213015 P.R. China